Fred Goodwin Executive Director Federal Regulatory



SBC Telecommunications, Inc. 1401 I Street, N.W., Suite 1100 Washington, D.C. 20005 Phone 202 326-8913 Fax 202 408-8731





August 1, 2001

Ms. Magalie Roman Salas Secretary Federal Communications Commission 445 12th Street SW Washington, DC 20554 AUG - 1 2001
FEDERAL COMMUNICATIONS COMMUNICATIONS

Re: ex parte presentation, CC Docket Nos. 96-98 / 98-147

On July 31, 2001, representatives of SBC met with Jeff Carlisle, Senior Deputy Bureau Chief of the Common Carrier Bureau and other FCC representatives. A list of attendees is attached.

The purpose of the meeting was to discuss technical and policy issues related to SBC's deployment of advanced services, as set out in the attached materials.

Respectfully submitted,

Fred Fordern

Fred Goodwin

Attachments

tion of the roots 0+2

ATTENDEE LIST

FCC

Jay Atkinson, Common Carrier Bureau / Competitive Pricing Division
Jeff Carlisle, Common Carrier Bureau / Senior Deputy Bureau Chief
Aaron Goldberger, Common Carrier Bureau / Policy Division
Dennis Johnson, Common Carrier Bureau / Network Services Division
Rodney McDonald, Common Carrier Bureau / Network Services Division
Jessica Rosenworcel, Common Carrier Bureau / Policy Division
Don Stockdale, Office of Plans and Policy

SBC

Don Cain, SBC Federal Regulatory Fred Goodwin, SBC Federal Regulatory Christopher Heimann, SBC Legal Jim Smith, SBC Federal Regulatory



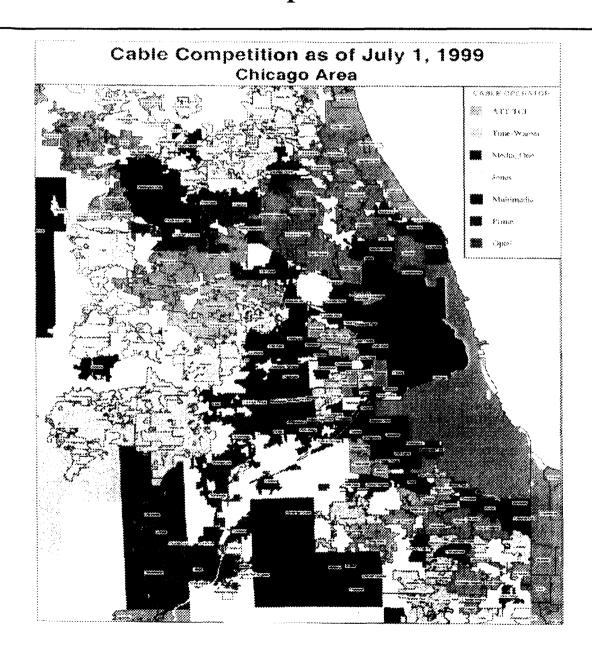
Key Points



- One broadband market -- competitive
 - Cable, Wireline, Wireless, Satellite
 - Price sensitive; services fungible
- UNE Regulation will impeded mass market broadband investment and reduce consumer choice
 - Project Pronto Experience
 - Mass market vs. targeted deployment
- National policy should promote fair competition in broadband deployment
 - Same services, same regulation -- regardless of facility platform
- FCC decision making must reflect marketplace realities of competing platforms

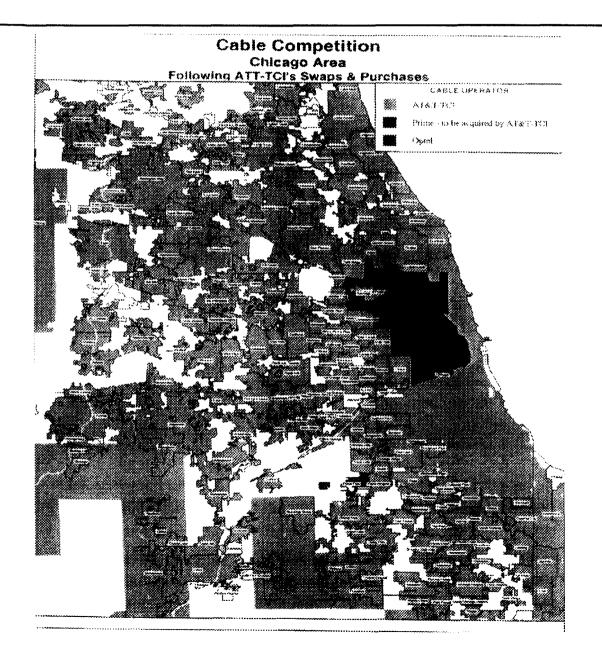
Cable Competition





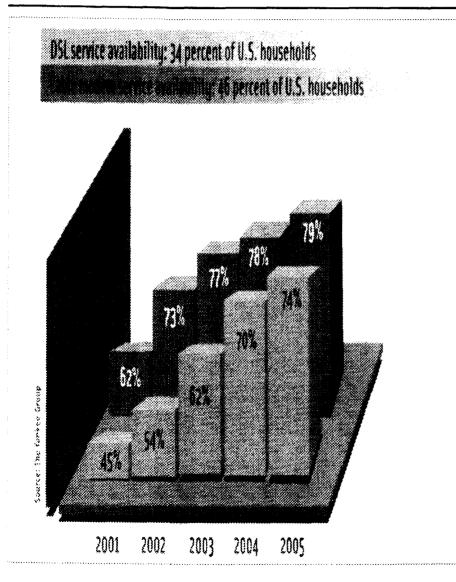
Cable Competition

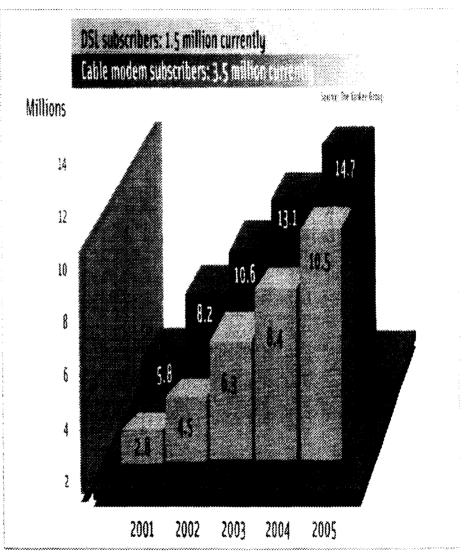




Broadband: Cable is Dominant Provider

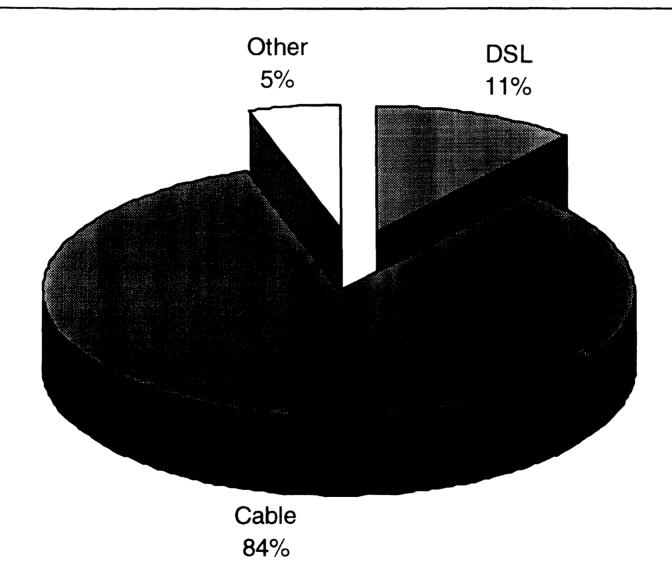






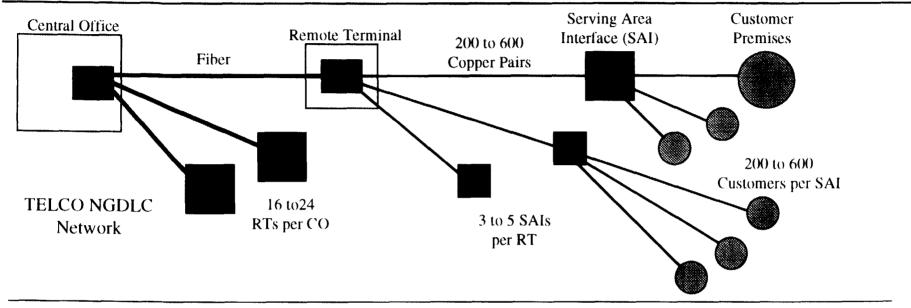
Broadband: Cable is Dominant Provider

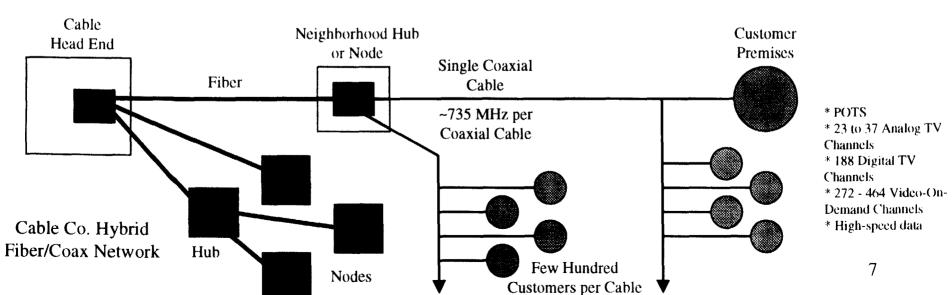




TELCO vs. Cable Network

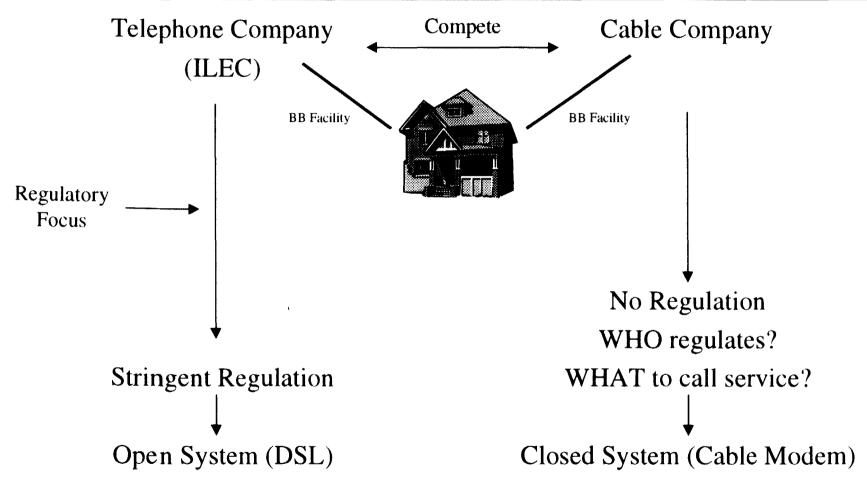






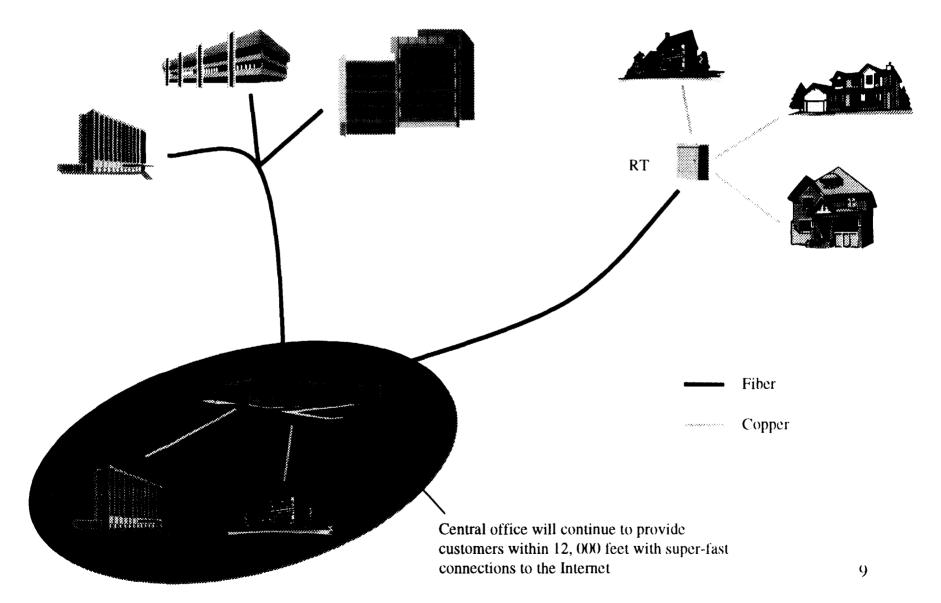
Competing Facilities





SBC's Broadband Plan





October 18, 1999 Project Pronto Announcement



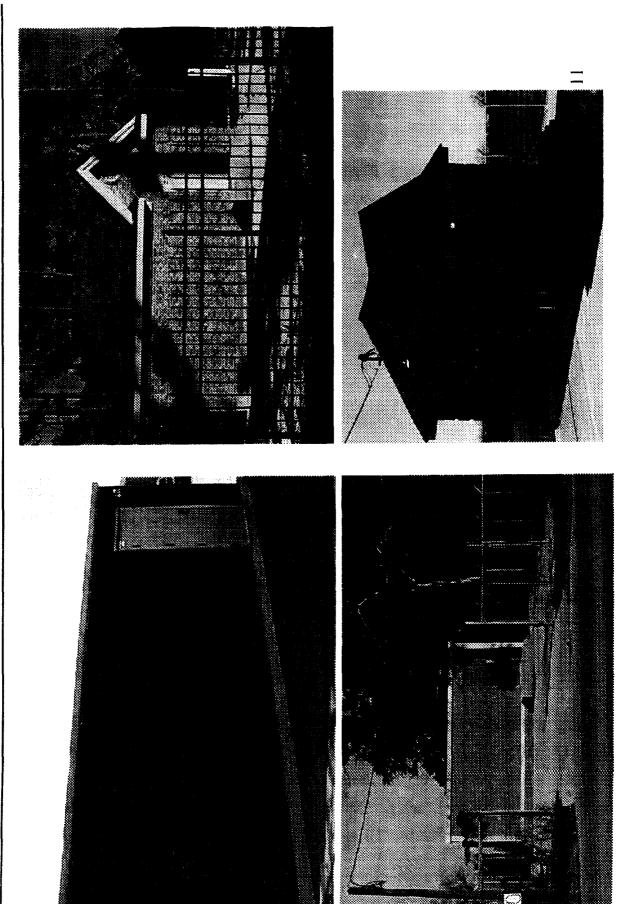
- \$6 Billion investment over 3 years
- Provide broadband capability to approximately to 35 million customer locations
 - Extend broadband reach to approximately 80% of customers (77 million people)
 - 1.5 Mbps download
 - 60% of broadband customer base up to 6 Mbps download

Remote Terminals

- 18,000 Existing
- Build or upgrade approximately 17,000
- 40% Huts/CEVs
- 60% Cabinets

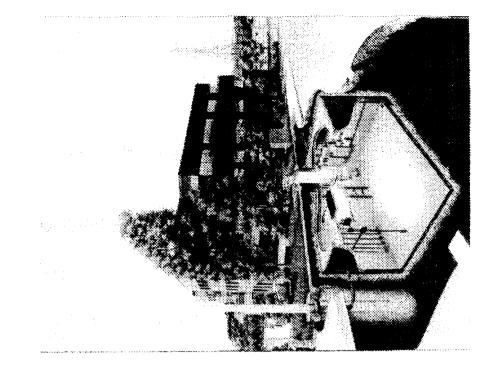
Remote Terminal Huts



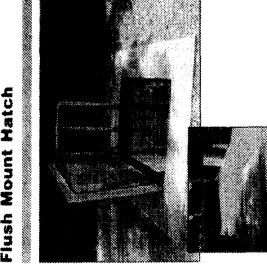


Remote Terminal CEVs









Flush Mount Hatch

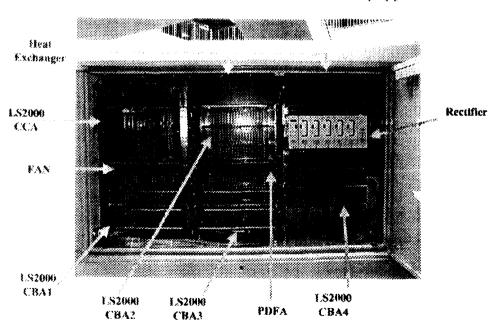
Remote Terminal Cabinets

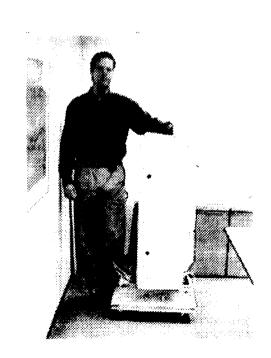






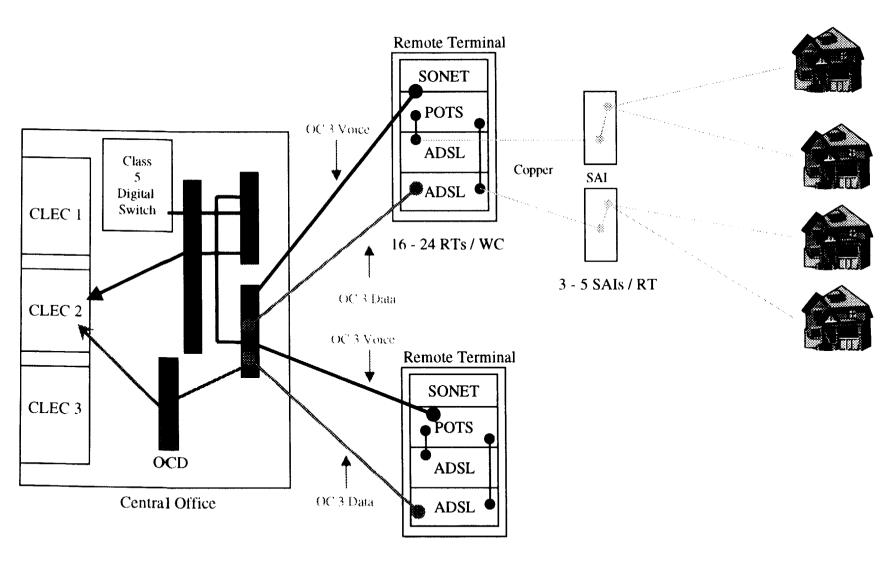
2016 Cabinet/6 CBAs/Side 1/PDFA Equipped





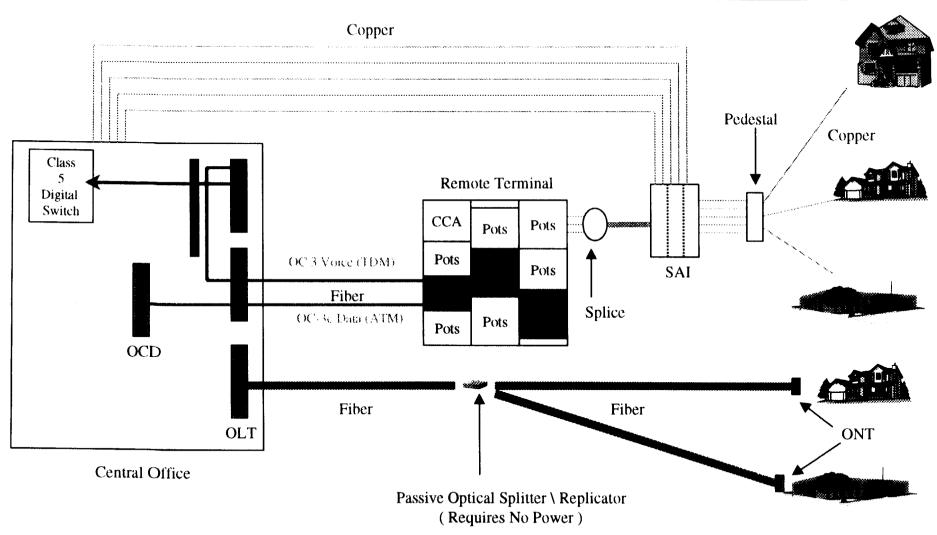
Project Pronto Network Architecture





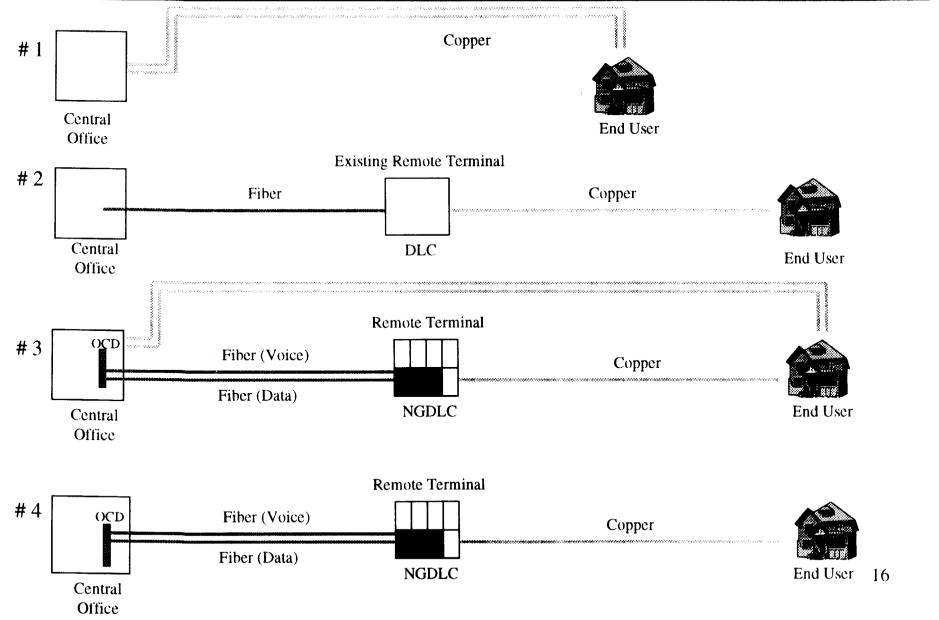
Project Pronto: Overlay Network





Different Loop Configurations





Current Regulation



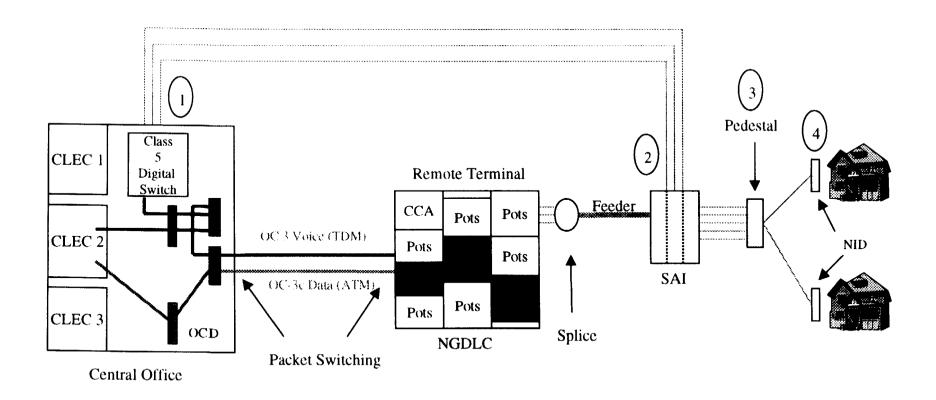
1996 Telecommunications Act: Unbundled Network Element (UNE)

- Sec 251 (c) (3): UNBUNDLED ACCESS: The duty to provide to any requesting telecommunications carrier for the provision of a telecommunications service, non discriminatory access to network elements at any technically feasible point at rates, terms, and conditions that are just, reasonable and nondiscriminatory ...
- Sec 251 (d) (2): If access to such network element is "necessary", and failure to provide would impair the TC's ability to provide the services it seeks to offer ...
- FCC determinations:
 - UNEs are price regulated based on cost of most efficient hypothetical network
 - UNEs include all features, functions, and capabilities of a given unbundled network element

Current Regulation



- Access to copper loop at technically feasible points (1, 2, 3 and 4)
- FCC Rules: SBC's Project Pronto RT architecture is not subject to UNE regulation (packet switching exempt from UNE unbundling: conditions satisfied)



Issues Generated in FCC Proceedings: Next Generation NPRM, Line Sharing NPRM

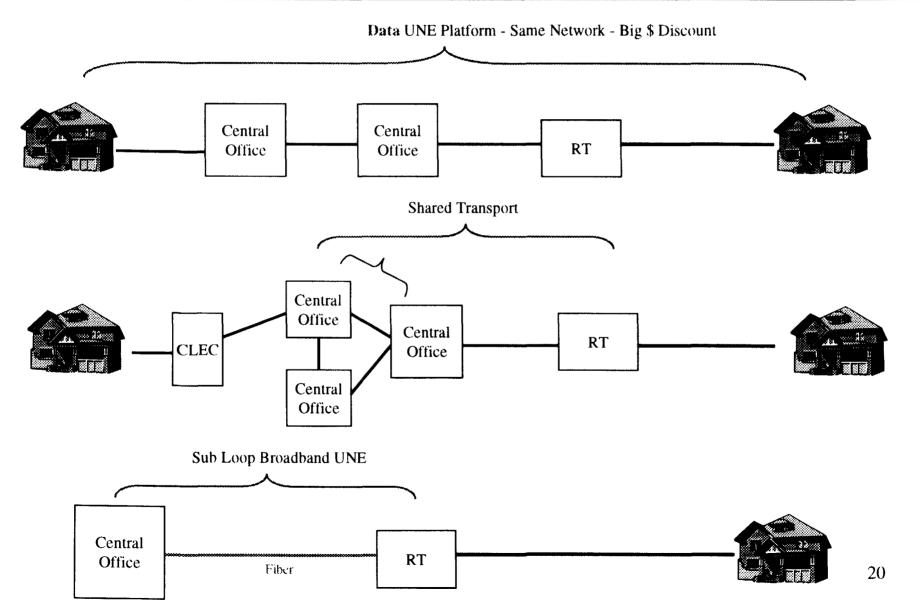


Carriers seek to extend legacy UNE regulation of 96 Act to competitive broadband market:

- Provide new broadband UNE for local loop Risk free ride
- Provide access to all features and functions of broadband equipment: Constant Bit Rate (CBR); Permanent Virtual Path (PVP)
- Unbundle broadband remote terminal equipment to allow carriers to insert their own line cards
- Treat broadband remote terminals same as central office for space and collocation purposes
- Require access to all copper subloops at all remote terminals as part of broadband deployment

UNE Regulation of Broadband Investment





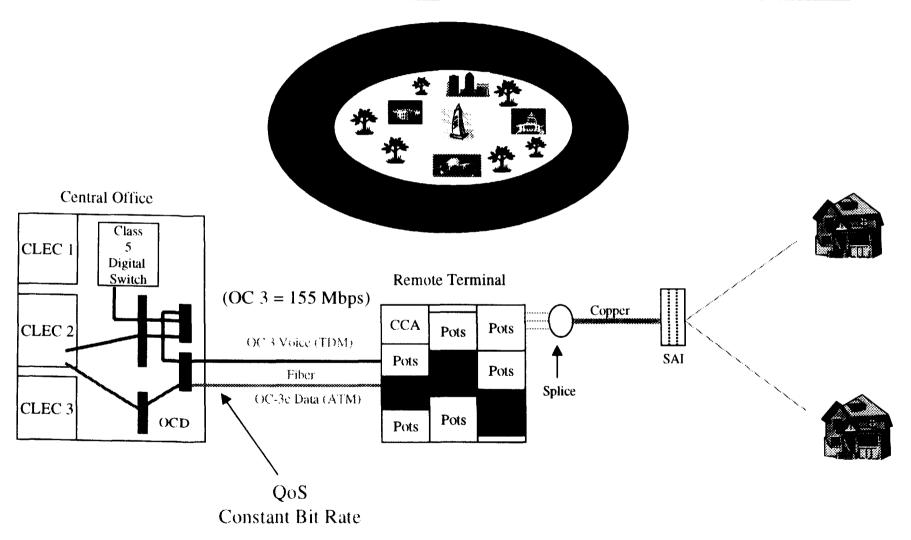
UNE Pricing: TELRIC Distorts Risk \ Reward Balance



State	Cost of Capital (%) Ordered
Illinois	9.52%
Indiana	9.74%
Michigan	10.60%
Ohio	9.74%
Wisconsin	13.60%
California	10.00%
Missouri	10.36%
Kansas	10.00%
Arkansas	10.36%
Texas	10.36%
Oklahoma	Stipulated Rates 10.69%
Connecticut	12.19%
Nevada	12.19%

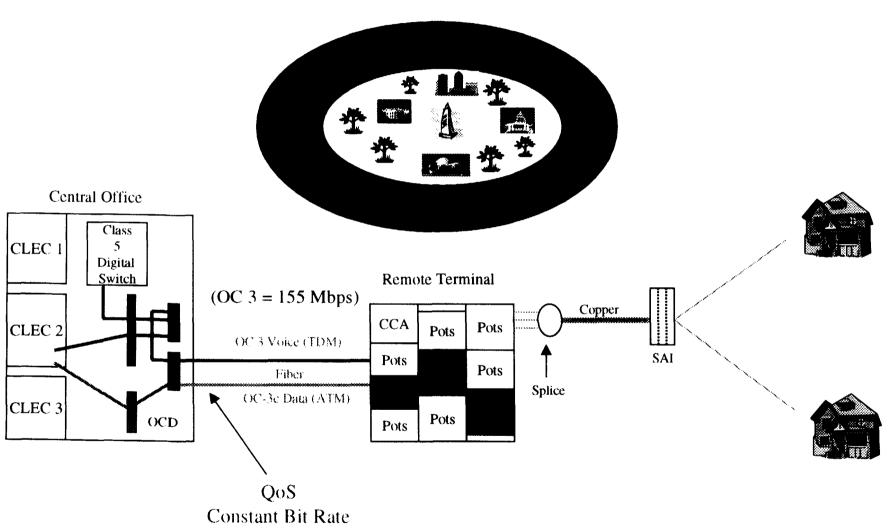
UNE Features and Functions Constant Bit Rate





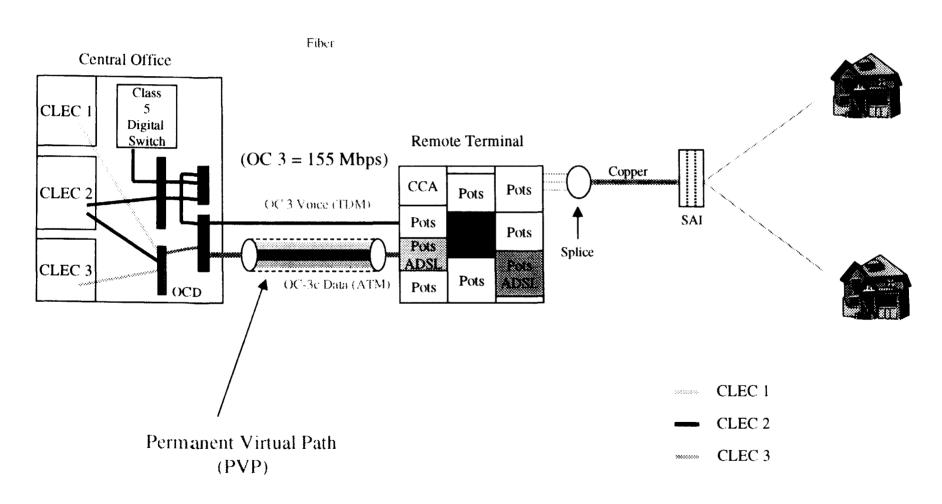
UNE Features and Functions Constant Bit Rate





UNE Features and Functions Permanent Virtual Path

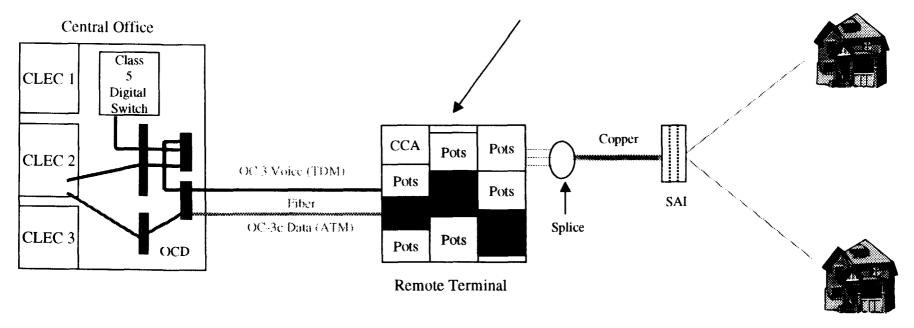




UNE Features and Functions Line Cards

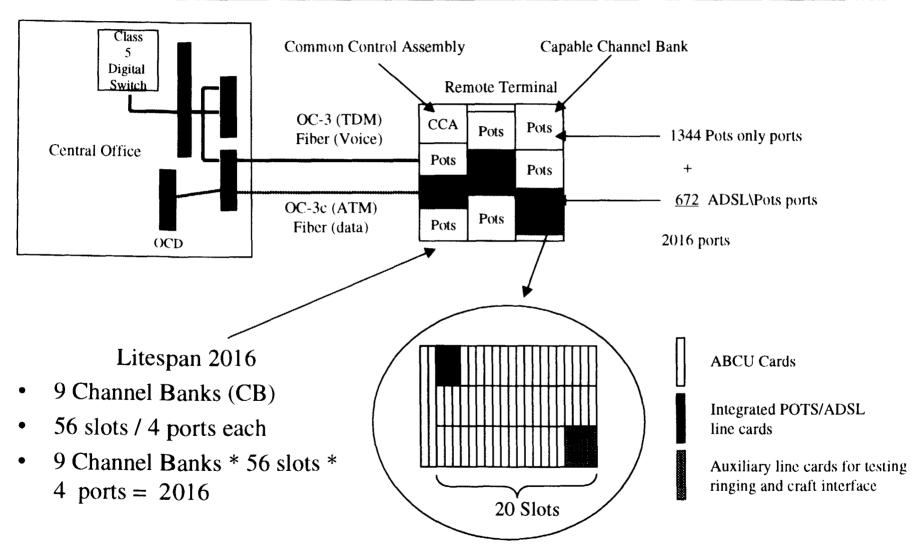






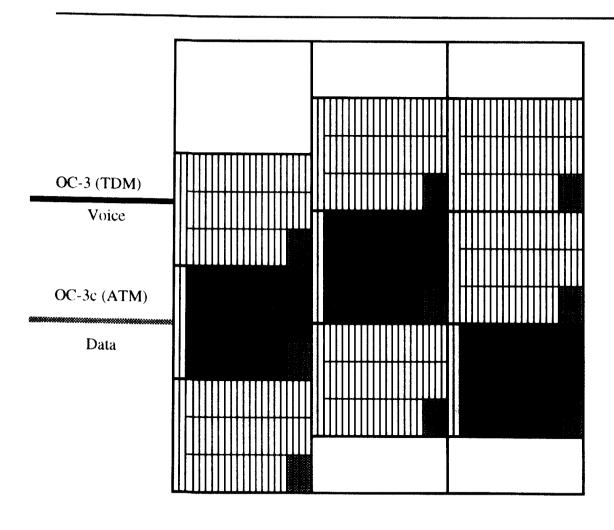
Remote Terminal: Capacity Limitations





Line Card Ownership: Worst Case Scenario





Key Points

- Unknown: type or quantity of line cards used by CLECs
- Inefficient use of limited RT capacity
 - G.HDSL (ATM): 84 Lines vs. 672
 - HDSL (TDM): 84 Lines vs. 1344

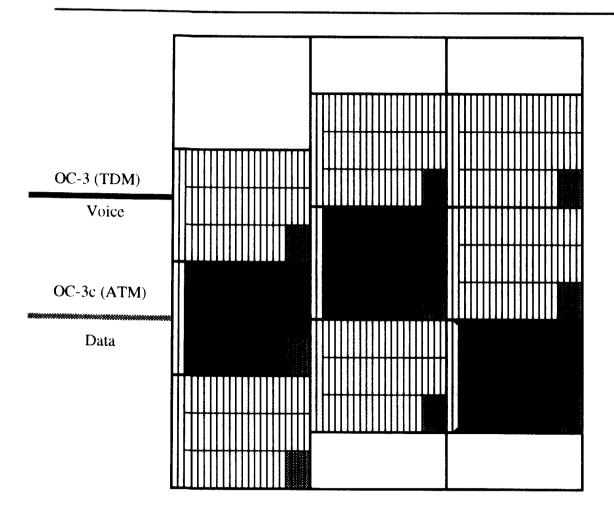
Pots \ ADSL

G.HDSL (ATM): Symmetrical 1.5 Mbps Line Card

HDSL (TDM): Symmetrical 1.5 Mbps Line Card

Line Card Ownership: Worst Case Scenario





Key Points

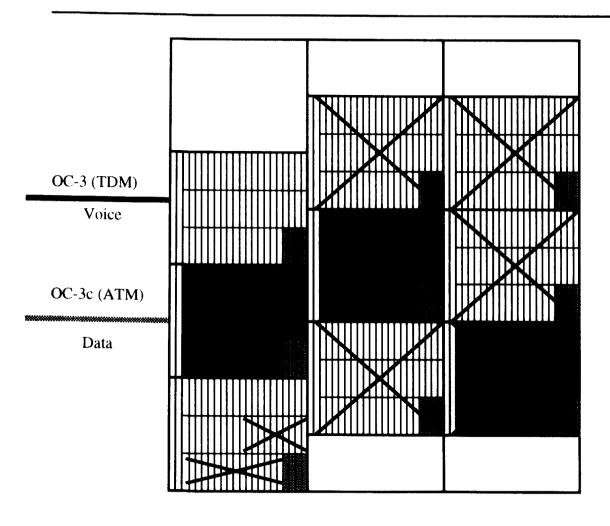
- Unknown: type or quantity of line cards used by CLECs
- Inefficient use of limited RT capacity
 - G.HDSL (ATM): 84 Lines vs. 672
 - HDSL (TDM): 84 Lines vs. 1344

Pots \ ADSL

G.HDSL (ATM): Symmetrical 1.5 Mbps Line Card HDSL (TDM): Symmetrical 1.5 Mbps Line Card

Line Card Ownership: Worst Case Scenario





Key Points

- Unknown: type or quantity of line cards used by CLECs
- Inefficient use of limited RT capacity
 - G.HDSL (ATM): 84 Lines vs. 672
 - HDSL (TDM): 84 Lines vs. 1344

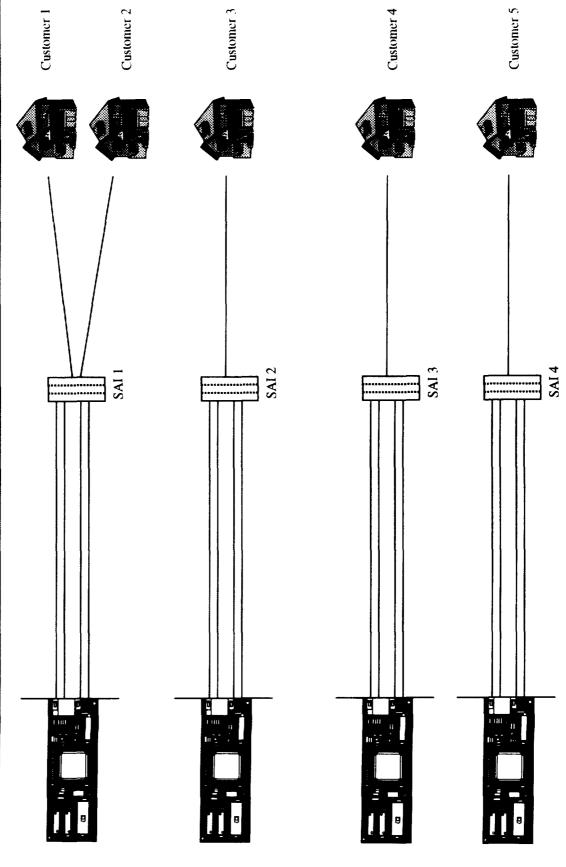
Pots \ ADSL

G.HDSL (ATM): Symmetrical 1.5 Mbps Line Card

HDSL (TDM): Symmetrical 1.5 Mbps Line Card

Line Card Ownership Inefficiency: ADSL

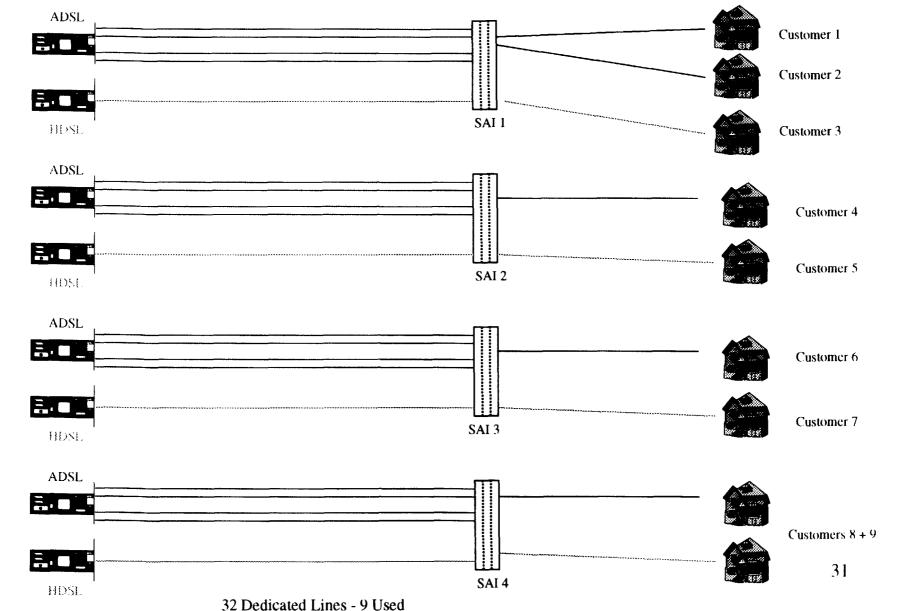




30

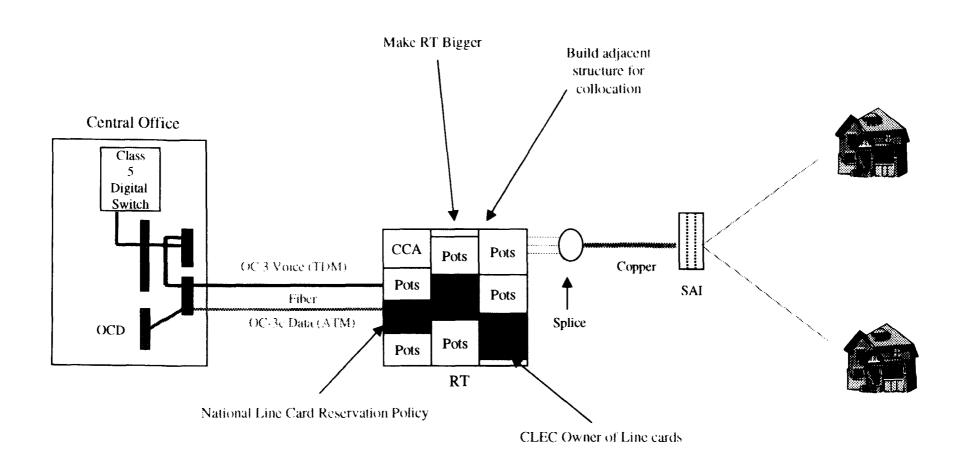
Line Card Ownership Inefficiency: ADSL & HDSL





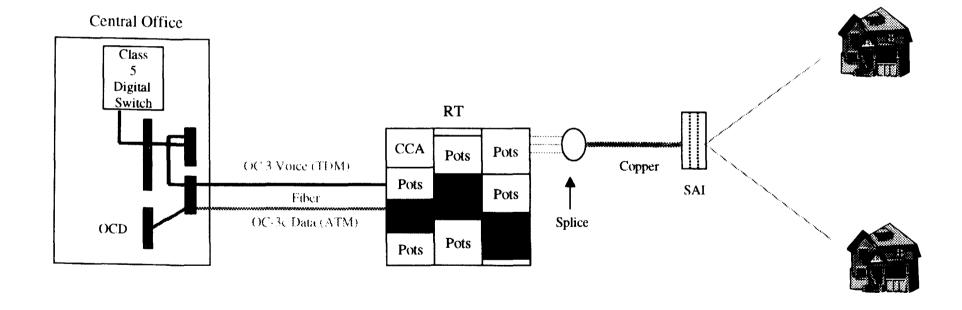
Regulation Increases Cost Structure RT Space and Collocation





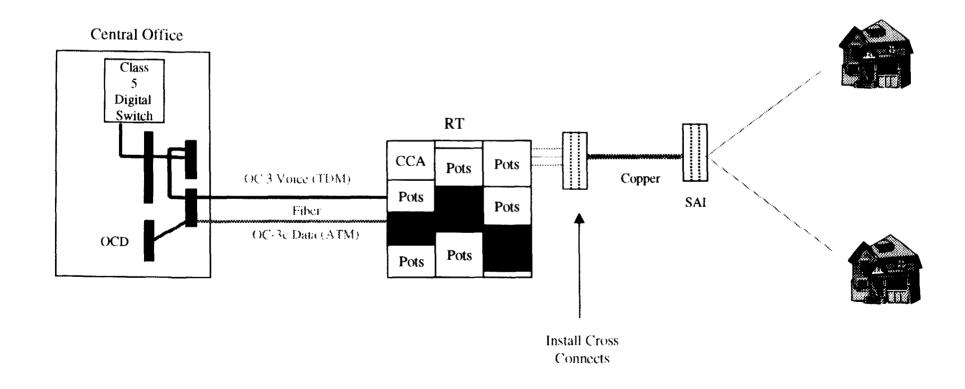
Regulation Increases Cost Structure Access to Copper: Up Front vs. As Needed





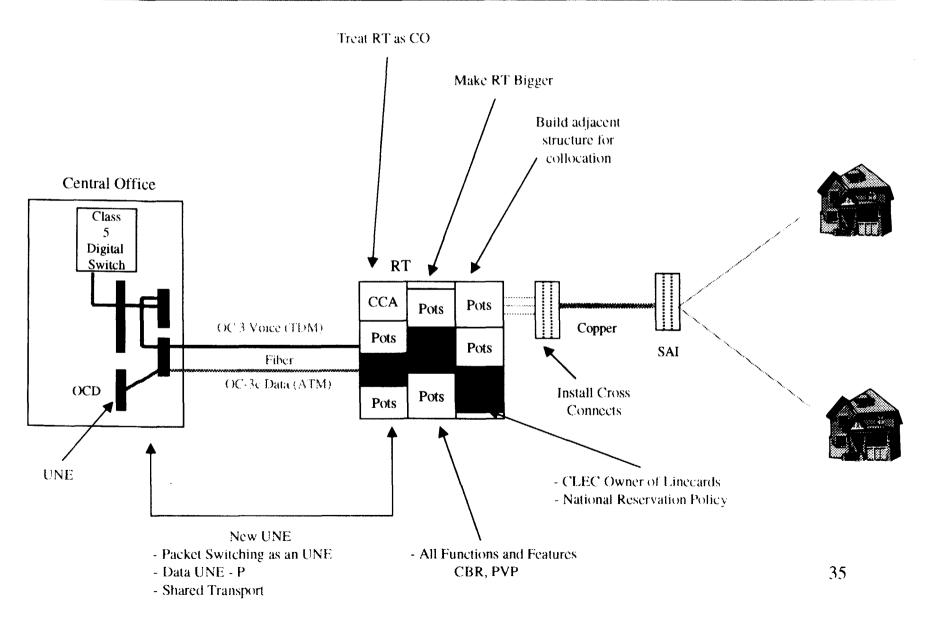
Regulation Increases Cost Structure Access to All Copper: Who Pays?





Summary: Extensive Regulation of Broadband





State Proceedings: Illinois



Decision:

- Require new UNEs:
 - Lit fiber between RT and CO
 - Copper subloop from RT
 - ADLU card
 - Port on OCD
 - Any combination of above
- CLECs can collocate line cards
- CBR and PVP available (Features and Functions)
- Prohibits AIT-Illinois from recovering costs of capacity rendered unusable
- Charge \$0 for lineshared HFPSL

Illinois: Deployment of Project Pronto DSL Facilities is Economically Infeasible



- Between \$46.3M and \$500M of additional capital cost to make up for stranded capacity
- Between \$140M and \$200M for additional OSS related and BackOffice systems improvement
- AIT-Illinois unable to budget or provision for own services
 - Wide potential costs variances
 - High level of uncertainty as to how and extent of use by CLECs
 - System exhaust for mass market deployment
 - Deprived of control and deployment of assets
- AIT-Illinois could bear huge financial risks without assurance of recovery
- Potential for huge amounts of stranded capacity as CLECs change business plans and as customers change DSL providers
- Costs would have to be added to a product that is price sensitive

Illinois



Decision:

- Require new UNEs:
 - Lit fiber between P
 - Copper subloop
 - ADLU card
 - Port on OQ
 - Any comb
 on of above
- CLECs can cate line cards
- CBR and PV ailable (Features and actions)
- Prohibits AIT ois from recovering conformation of capacity and ered unusable
- Charge \$0 for hard HFPSL

Decisions in Other States



Michigan:

No unbundling of Pronto (FOR NOW)

But: Investigate future linesharing over fiber

Texas: (ALJ Arbitration Decision)

- Unbundle Provide a broadband UNE
- Features and Functions: Provide unless technically infeasible
- OCD: offer DS1 ports
- Access to copper at RT
- Increase bandwidth between RT and CO if no dark fiber
- No line card collocation -- May revisit later

Extending UNE Regulation will Distort Economics of Broadband Deployment



- Increased infrastructure cost
 - Larger Remote Terminals
 - Install Cross Connects
- Increased operational cost
 - Development of line card management \ inventory systems
 - Development of new operation support systems
- Decreased network efficiency
 - Premature exhaust of system due to stranded capacity: CBR, PVP
 - Decreased efficiency of carrier specific line cards

Extending UNE Regulation will Distort Competition



- **Bottom Line:** TELCO broadband service must be price competitive with cable modem service
- Pronto Waiver Costs: Larger RTs; OCDs
- UNE Regulation:
 - Distorts investment Risk \ Reward balance
 - Reduces need for CLECs to invest in facilities -- RISK FREE RIDE!
 - Hinders mass market broadband deployment
 - Increases regulatory disparity between facility providers (Cable, Wireline, Wireless, and Satellite)
- IRONY: Demand for UNE regulation of TELCO broadband targets the nondominant provider -- Cable is the dominant provider of broadband to the mass market

Conclusion: "Last Mile" Broadband Deployment is a Problem in Need of a Solution



- Regulatory involvement in technology increases uncertainty, slows deployment, and can adversely effect business case fundamentals
- FCC has come full circle from Computer II --
 - CI-II removed regulation from technology in Information Services and CPE
- Potential broadband UNE regulation intertwines regulation with technology deployment decisions (e.g. Pronto, DWDM, BPON, Etc.)
 - Need to remove "regulatory chill" pervading broadband deployment
- Consumers have less choice of facility providers; deprived of new services
- Extension of UNE regulation to broadband investment must be evaluated in a comprehensive fashion that takes into account competing facility providers
 - Unified national framework vs. ad hoc decision making